

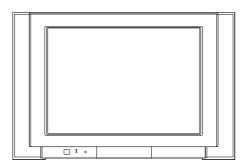
# COLOR TV SERVICE MANUAL

CHASSIS: MC-049B

MODEL:RT-21FA35R/RX/V/VX RT-21FA315EX/PX

### **CAUTION**

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



# **CONTENTS**

Contents	2
Safety Precautions	3
Control Descriptions	4
Specifications	7
Adjustment Instructions	8
Trouble Shooting	12
Printed circuit board	16
Block Diagram	19
Exploded View	20
Exploded View Parts List	21
Replacement Parts List	22
SVC. Sheet	

### **SAFETY PRECAUTIONS**

### **IMPORTANT SAFETY NOTICE**

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  $\Delta$  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### **General Guidance**

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

### X-RAY Radiation

### Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.

For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum. Measure the high voltage.

The meter reading should indicate

23.5; 1.5KV: 14-19 inch, 26; 1.5KV: 19-21 inch, 29.0; 1.5KV: 25-29 inch, 30.0; 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

### Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M $\Omega$  and 5.2M $\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

### Do not use a line Isolation Transformer during this check.

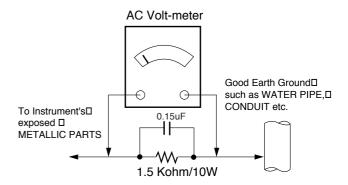
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

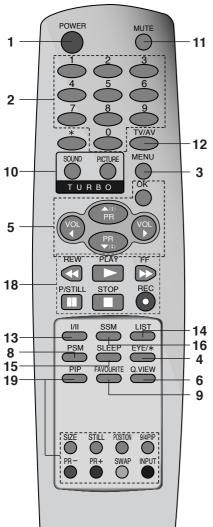
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### **Leakage Current Hot Check circuit**



### **DESCRIPTION OF CONTROLS**



All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.

### Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.

#### 1. POWER

switches the set on from standby or off to standby.

### 2. NUMBER BUTTONS

switches the set on from standby or directly select a number.

#### 3. MENU

selects a menu.

### 4. EYE/\* (option)

switches the eye function on or off.

### 5. ▲ / ▼ (Programme Up/Down)

selects a programme or a menu item. switches the set on from standby. scans programmes automatically.

### √ | (Volume Up/Down)

adjusts the volume.

adjusts menu settings.

### OK

accepts your selection or displays the current mode.

### 6. Q.VIEW

returns to the previously viewed programme.

### 7. TELETEXT BUTTONS (option)

These buttons are used for teletext. For further details, see the 'Teletext' section.

### 8. PSM (Picture Status Memory)

recalls your preferred picture setting.

#### 9. FAVOURITE

selects a favorite programme.

### 10. TURBO PICTURE / SOUND BUTTON (option)

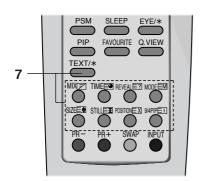
selects Turbo picture and sound.

### **11. MUTE**

switches the sound on or off.

### 12. TV/AV

selects TV or AV mode. switches the set on from standby.



(Without TELETEXT / With PIP)

(With TELETEXT / PIP)

### 13. I/II/\* (option)

selects the language during dual language broadcast. (option) selects the sound output.

### 14. LIST

displays the programme table.

### 15. SLEEP

sets the sleep timer.

### 16. SSM/★ (option) (Sound Status Memory)

recalls your preferred sound setting.

### 17. SURROUND (**◄**○>>/**★**) (option)

selects surround sound.

#### 18. VCR BUTTONS

control a LG video cassette recorder.

### 19. PIP BUTTONS (option)

PIP

switches the sub picture on or off.

PR +/-

selects a programme for the sub picture.

**SWAP** 

alternates between main and sub picture.

**INPUT** 

selects the input mode for the sub picture.

selects SIZE

adjusts the sub picture size.

STILL

freezes motion of the sub picture.

### **POSITION**

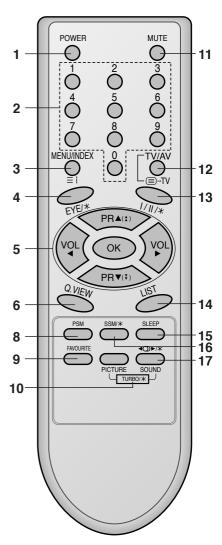
relocates the sub picture in clockwise direction.

9/4 PIP

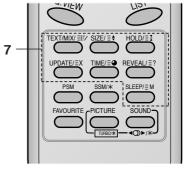
switches on or off the 9 or 4 sub pictures.

### \* : No function

**COLOURED BUTTONS :** These buttons are used for teletext (only TELETEXT models) or programme edit.



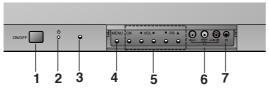
(Without TELETEXT / PIP)



(With TELETEXT / Without PIP)

### Front panel

### RF/RT-21FA35 series

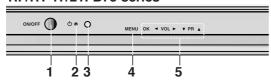


### RF/RT-21FB25 series



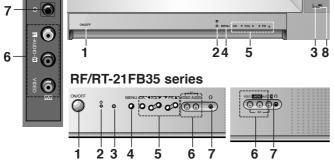
### RF/RT-17/21FB75 series

2 3

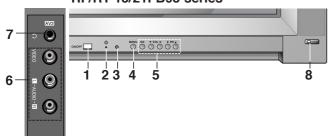


6 7

### RF/RT-21FC45 series



### RF/RT-15/21FB95 series



### MAIN POWER (ON/OFF) switches the set on or off.

### POWER/STANDBY INDICATOR

illuminates brightly when the set is in standby mode.

dims when the set is switched on. blinks when signal is input from the remote control.

### **REMOTE CONTROL SENSOR**

#### **MENU**

selects a menu.

accepts your selection or displays the current mode.

### √ / ► (Volume Up/Down)

adjusts the volume.

adjusts menu settings.

### **▲** / ▼ (Programme Up/Down)

selects a programme or a menu item. switches the set on from standby.

### 6. AUDIO/VIDEO IN SOCKETS (AV2) (option)

Connect the audio/video out sockets of external equipment to these sockets.

### **HEADPHONE SOCKET (option)**

Connect the headphone plug to this sock-

#### **EYE** (option) 8.

adjusts picture according to the surrounding conditions.

#### Note:

- Do not place any heavy objects (over 4Kg) on the RF/RT-21FA35 series models.
- Shown is a simplified representation of front or side panel. Here shown may be somewhat different from your set.

### **SPECIFICATIONS**

**Note:** Specification and others are subject to change without notice for improvement.

### Scope

This specification can be applied to all the television related to MC-049B Chassis.

### ■ Test and Inspection Method

1) Capacity: Follow LG electronics TV testing Standard.

2) Another Required Standard

- EMI : Following CE Standard (EN55020, EN55013)

- Safety : Following CB Standard (EN55013)

### ■ Requirement for Test

Testing for standard of each par must be followed in below condition

1) Temperature :  $20 \pm 5^{\circ}$ C

(CST must be tested  $40 \pm 5^{\circ}$ C . Humidity : 50%)

2) Relative Humidity: 65 ± 10%

3) Power: Standard input Voltage (110-240V~, 50/60Hz)

4) Measurement must be performed after heat-run more than 20min

Adjusting Standard for this chassis is followed a special standard.

### ■ General Specification

No	Item	Specification	Remark
1	Receiving System	1) PAL/SECAM BG	For EU/ For Non EU
		2) PAL/SECAM DK	
		3) PAL I/I	
		4) NTSC M	
		5) SECAM-L/L'	
		6) NTSC 4.43(AV)	
2	Receiving Channel	1) VHF : E2 ~ E12	For EU/ For Non EU
		UHF : E21 ~ E69	
		CATV : S1 ~ S20	
		HYPER : S21 ~ S41	
		2) L/L' : B,C,D	
		3) VHF : 02 ~ 13	NTSC-M (Multi - model)
		UHF : 14~ 69	
		CATV: 02 ~ 71	
3	Input Voltage	110-240V~, 50/60Hz	Non EU
		240V~, 50Hz	EU
4	Market	EU,CIS, China, Asia, Africa	
5	Screen Size	14" ~ 21"	FLAT / CONVENTIONAL
6	Tuning System	FVS 100Program	
7	Operating Environment	1) Temp. : 0 ~ 45 deg	200 PR. (OPTION)
		2) Humidity: 85% under	
8	Storage Environment	1) Temp. : -20 ~ 60 deg	
		2) Humidity: 85% under	

### **ADJUSTMENT INSTRUCTIONS**

### 1. Application Object

These instructions are applied to all of the color TV, MC-049B.

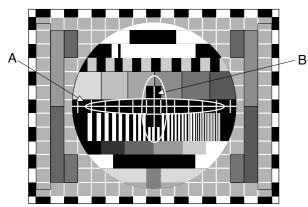
### 2. Notes

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
- (2) Adjustment must be done in the correct order.But the adjustment can be changed by consideration of mass production.
- (3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
- (4) The input AC voltage of the receiver must keep rating voltage in adjusting.
- (5) The receiver must be operated for about 15 minutes prior to the adjustment.

### 3. Focus adjustment

### 3.1. Preliminary steps

Tune the TV set to receive a digital pattern. (SVC mode:Automatically mode change the STANDARD MODE)



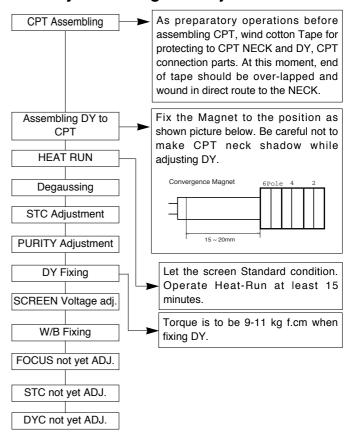
<Fig 1. PAL Digital Pattern(EU05CH)>

### 3.2. Adjustment Method

### 1) Single Focus CPT

Adjust the upper Focus volume of FBT for the best focus of horizontal line A,vertical line B.

### 4. Purity & Convergence adjustment



### 4.1. Color purity adjustment

- (1) It makes CPT enough to demagnetization.
- (2) Receive the signal of red raster.
- (3) Loosen fixed screw of DY and closely to CPT funnel part.
- (4) Check the center of screen that PURITY MAGNET of CPT by crossing adjustment. At this time, 4 & 6 pole magnet is located to magnet of nothing.
- (5) Move the DY to make equal red on whole screen and it does not to make the DY by fixed screw after check a simple color of Red/Green/Blue and white raster whether or not it is a pollution of color.
  - (At this time, take care raster of screen and DY must fixing in the condition which maintains a horizontality.)
- (6) Check the receiver by move direction. When adjustment is not working, adjust with the assisted MAGNET.

### 4.2. Convergence adjustment

These adjustments can the best condition of focus after finished purity adjustment.

- (1) Receive the signal of CROSS HATCH that BACK RASTER is black.
- (2) Adjust brightness and luminosity till dot appear 9 ~12.
- (3) Open angle of the two tab of 4 pole MAGNET by isogonic angle and accord with vertical line of red and blue color in the middle of screen.

- (4) Maintain as angle of (3) and rotate the tab to accord with vertical line of Red and Blue color in the middle of screen.
- (5) Open angle of the two tab of 6 pole magnet by isogonic angle and accord with vertical line of Red/Blue and Green.
- (6) Maintain as angle of (5) and rotate the tab to accord with horizontal line. In case of twisted horizontal line,repeat adjustment of (3) ~ (5) remembering the movement of Red/Green/Blue color.
- (7) Move the DY to best condition of convergence and attach the CPT to a rubber-chock for fixed DY.

### 5. Screen voltage adjustment

- Receive the PAL or SECAM(NTSC) signal into RF mode regardless of channel.
- (2) If you press the "ADJ" button in LINE SVC mode(IN-START button), the LINE SVC mode changes to screen adjustment mode
- (3) Adjust the screen volume of FBT jack, When width line is seen turn the FBT screen volume at the position of disappearance it.
- (4) Press the TV/AV button to exit SVC mode.

### 6. White balance adjustment

NOTE: When adjusting white balance automatically,connect the adjustment JIG in SVC mode. (When pressing ,MUTE button on remote control, it changes to CPU OFF MODE and screen displays "AUTO".)

- (1) Receive 100% white pattern.
- (2) Adjust LOW Light status(4.5FL) of CUT R,CUT B at CG:60.
- (3) Adjust HIGH Light status(35FL) of WDR R,WDR B at WDR G:450.
- (4) Repeat above step (2) and (3) for the best condition each status of High Light and Low Light.

< Table 1> White Balance Color analyzer

Menu	EU	N-EU		
X	288	266		
Υ	295	273		
Color Temperature	9000°K	13000°K		

### <Table 2> White Balance Initial Data

Menu	Menu	Range	DATA
LOW LIGHT	CUT R	0 ~ 511	60
	CUT G	0 ~ 511	60
	CUT B	0 ~ 511	60
HIGH LIGHT	WDR R	0 ~ 511	450
	WDR G	0 ~ 511	450
	WDR B	0 ~ 511	450

### \* Auto adjustment

< Table 3> White Balance Initial Data

1. IC

	Name	Maker	Al	gorithi	n
VCD IC	VCT49xyi	Micronas			
EP_ROM	24C16	ST, ATMEL	0	Α	0

#### 2. White balance IIC Parameter

Program	TWBeng_v049	Program	TWBeng_v049	Speed	Delay
Vcd Slave	BCF0	Eprom_Slave	AE	1	30

	R_Amp	R_Cut	B_Amp	B_Cut
Program	TWBeng_v049	TWBeng_v049	TWBeng_v049	TWBeng_v049
Sub Add	1C8	1C3	1CA	1C5
Start Bit	12	12	12	12
Stop Bit	4	4	4	4
Offset	0	0	0	0
Polarity	1	1	1	1
EP_Rom_S	9091	8A8B	9495	8E8F

Special   180   1	Speed/ Plus	1	1	1	1
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### <CAUTION> W/B Program "Twbeng\_v049"

- W/B adjustment after Cutoff
- : Instart -> adj. -> mute(cutoff)-> tv/av(wb)
- Release key is EXIT key
- W/B adjustment
  - : Instart -> mute(cpuoff) Release key is TV/AV key

### 7. Deflection setting Data Adjustment

### 7.1 Adjustment preparation

- (1) Tune the TV set to receive an Digital pattern(EU05CH).
- (2) Deflection setting data adjustment is operate by SVC communicator.
- (3) Enter the deflection adjustment mode by selection SERVICE1 on SERVICE MENU after pressing LINE SVC MODE(IN-START KEY).
- (4) Use the CH ▲ ,▼ key to select adjustment item.
- (5) Use the VOL ◀,▶ key to increase/decrease data.

#### <Note>

- (1) When adjusting a deflection, adjust N50Hz of PAL signal first and adjust a deflection at Normal 60Hz(NTSC).
- (2) Adjust a deflection as shown below. PAL 4:3 -> NTSC 4:3
- (3) After finishing deflection adjustment, press the ENTER key to exit in adjustment mode.
  - \* Before adjusting the PIP P(PIP Position), store the deflection data in the EEPROM by using the "ENTER" key.

### 7.2 Adjustment

- (1) VL(Vertical Linearity) adjustment:
  - Adjust the top & bottom size of inner circle to be equal.
- (2) VA (Vertical Amplitude) adjustment: Adjust so that the circle of a digital circle pattern should be located interval of 6~7mm from the effective screen of the CPT.
- (3) SC (S correction) adjustment: Adjust so that all distance between each lattice width of top/center/bottom are to be the same.
- \* Setting the CPT Default(Initial data) value like that, because it is decide by CPT DY value

### (4) VS (Vertical Shift) adjustment:

Adjust so that the geometric vertical center line is in accord with vertical center line of CPT.

### (5) HS(Horizontal Shift) adjustment:

Adjust so that the geometric horizontal center line is in accord with horizontal center line of CPT.

### <Table 4> Initial deflection setting data

Menu	Variable range	N50Hz(PAL) FLAT 21"	N60Hz(NTSC) FLAT 21"
VS	-512~511	150	140
VA	-512~511	-12	-12
VL	-512~511	140	140
SC	-512~511	6	6
HS	32~2047	100	123

### **8.OPTION Adjustment**

### 8-1. Preparation for Adjustment

- This option adjustment decides function in accordance with model. Press IN-START button on SVC communicator, then adjust the option at OPTION1 mode.
- 2) Mark the option adjustment data like [111,111,111,111] in BOM.

### 8-2. Adjustment Method

OPTION data input

- 1) Function: YES, No function: NO
- Select each OPTION function by the CH Up/Down button and then set up each OPTION(yes or no) by the VOL Up/Down button.

### 8-3. OPTION 1

Option	Code	Function
INCH	0	21A
	1	21B
	2	21C
	3	29F/25F
	4	28WF/32WF
	5	28N
	6	34F
	7	29N/25N
SYS	0	BG/I/DK
	1	BG/I/DK/L
	2	BG/I/DK/M
	3	BG/L
SOUND	0	RF STEREO
	1	AV STEREO
	2	MONO
	3	MONO DUAL
CH+AU	0	Using
	1	Not using

### 8-4. OPTION2 Function

Option	Code	Function
AV2	0	Without A/V2
	1	With AV2
DVD	0	Without DVD
	1	With DVD
SCART1	0	Without SCART1
	1	With SCART1
GAME	0	Without GAME function
	1	With GAME function
EYE	0	Without EYE
	1	With EYE
TX	0 LARGE	
	1	SMALL
KEY	0	6,8 KEY
	1	4 KEY
DEGAU	0	Without DEGAU
	1	Whit DEGAU

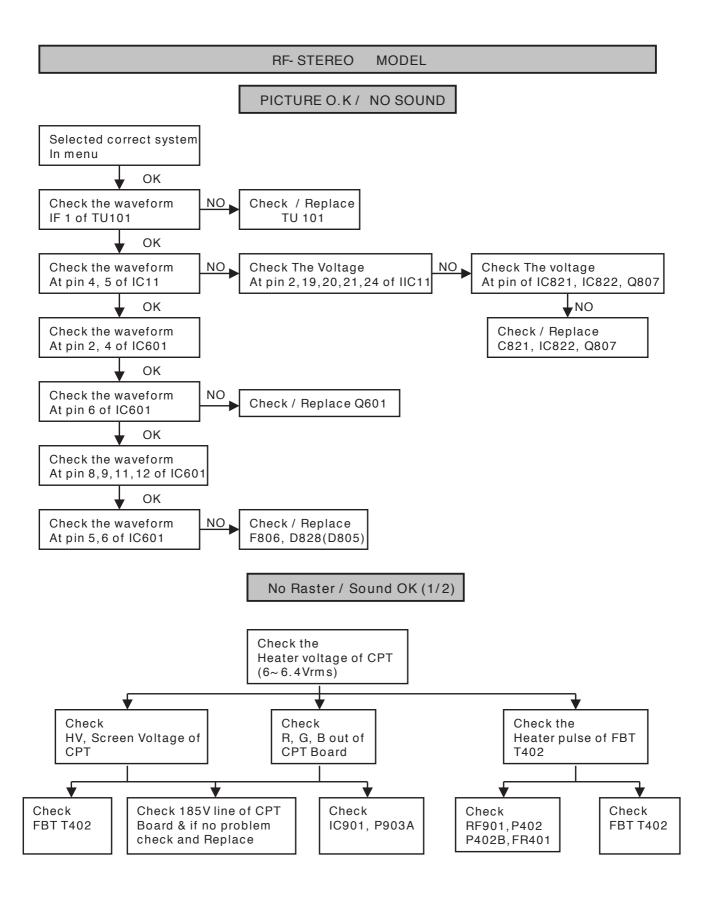
### 8-5. OPTION3 Function

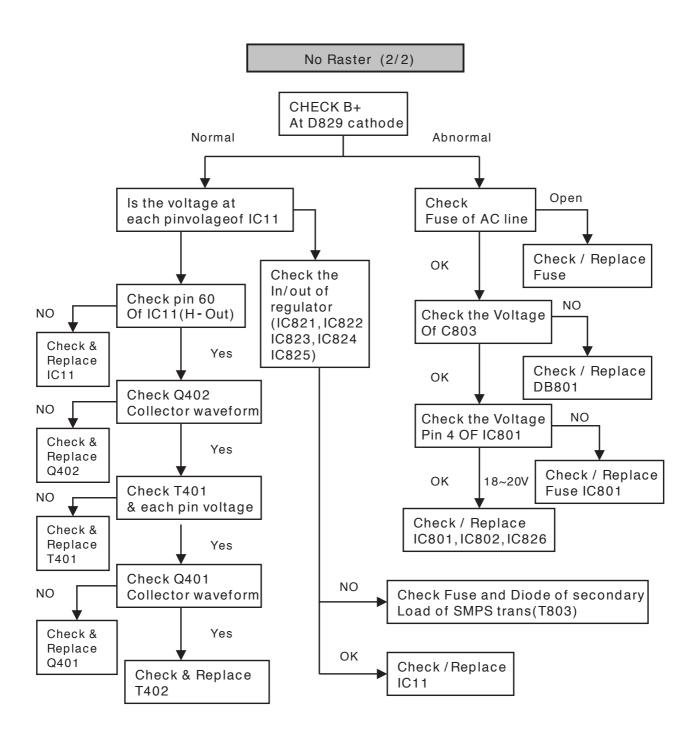
Option	Code	Function
TEXT	0	Without TEXT (200PR)
	1	With TEXT (100PR)
TOP	0	FLOP
	1	TOP
ACMS	0	Without ACMS
	1	With ACMS
12 SV	0	Without I 2 SV
	1	With I 2 SV
VOL	0	VOL 0
	1	VOL 1
TSEAR	0	Without TURBO SEARCH
	1	With TURBO SEARCH
T P-S	0	Without TURBO PICTURE/ SOUND
	1	With TURBO PICTURE/ SOUND
HDEV	0	Without HDEV
	1	With HDEV

### 8-6. OPTION4 Function

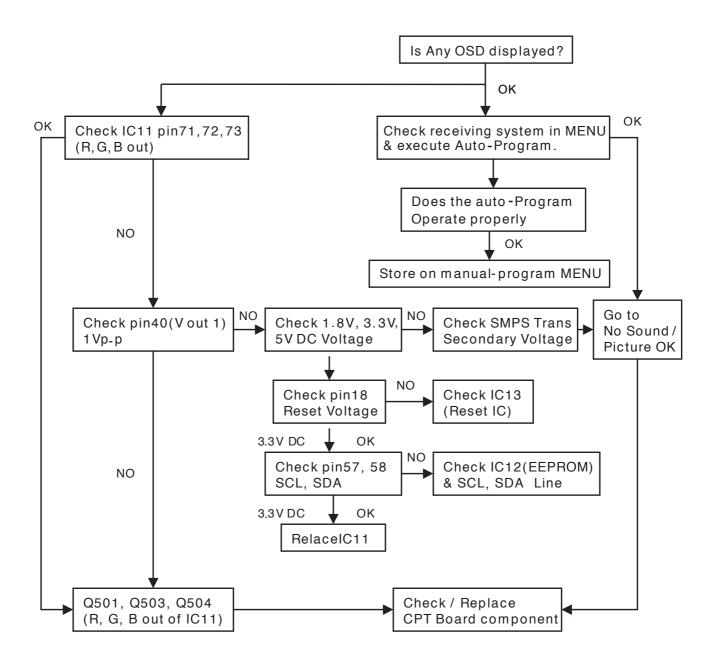
Option	Code	Function
OSD L	0	ENG ONLY
	1	EU-5EA
	2	EU ETC
	3	GREECE
	4	EU-ALL
	5	FARSI
	6	ARAB URDU
	7	E+HINDI
	8	E+I+M+V
	9	E+THAI
	10	E+CHINA
TXT L	0	WEST EU
	1	EAST EU1
	2	TURKEY EU
	3	EAST EU2
	4	CYRILLIC1
	5	CYRILLIC2
	6	CYRILLIC3
	7	TURK GRE1
	8	TURK GRE2
	9	TURK GRE3
	10	ARAB FRA
	11	ARAB ENG
	12	ARAB HEB1
	13	ARAB HEB2
	14	FARS ENG
	15	FARS FA
	16	FARS ALL
	17	AUTO
HOTEL	0	WITHOUT HDEV
	1	WITH HDEV
MAX V	0~	SETTING VOL MAX
	100	

### **TROUBLE SHOOTING**

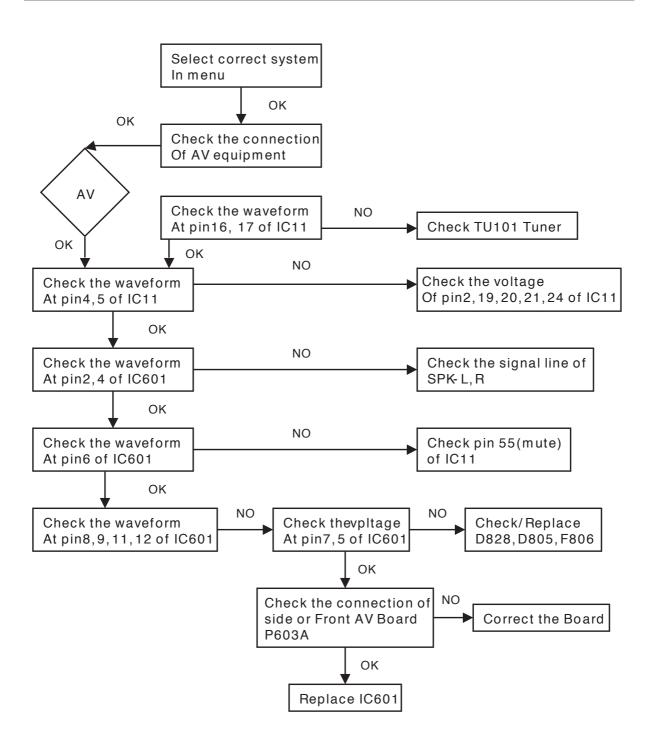




### NO Picture / No Sound

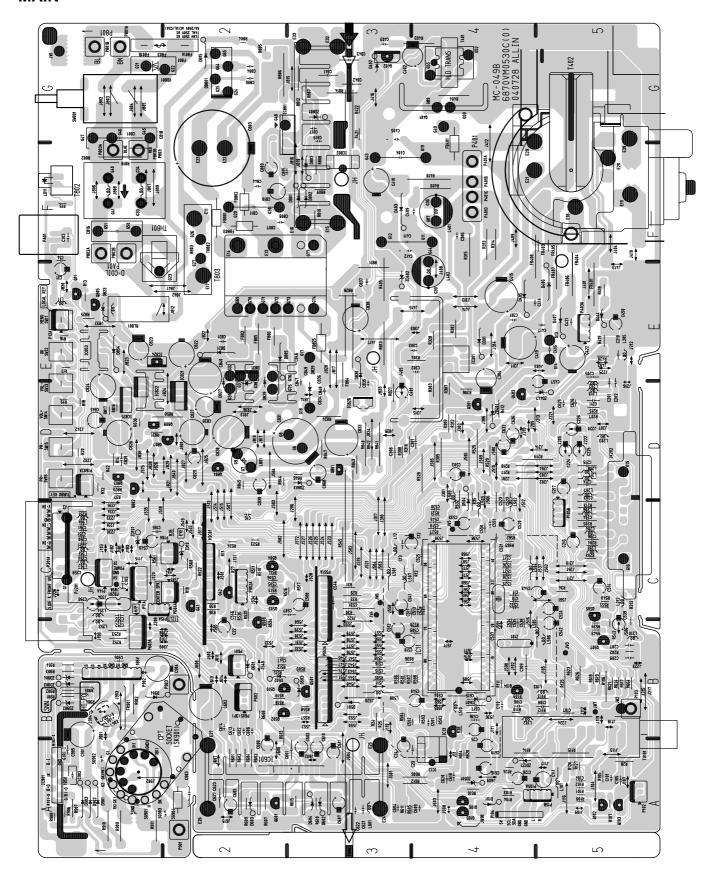


### AV STERRO / MONO MODEL



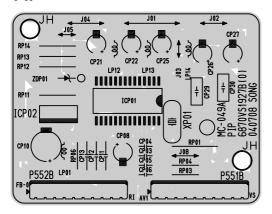
### PRINTED CIRCUIT BOARD

### **MAIN**

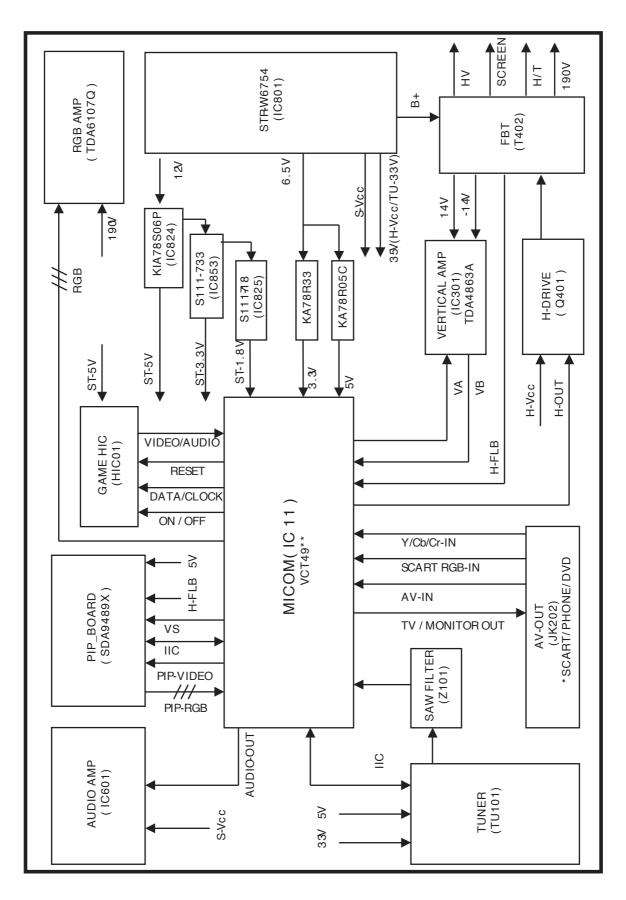


84			COMPO	NENT L	OCATIO	N GUID	E ——		
C10C4	C501B4	C626D5	D022 E1	1001 C1	IE44 DO	1010 D0	D40 D4	D404 F0	D005 00
C11C4	C502B4	C627A2	D823E1 D827D2	J231C1 J232D1	J541B3 J542B3	J810D2 J811D2	R19D1 R20D1	R421F3 R422G3	R805G2
C12C4	C503D4	C632D4	D828D2	J233C1	J543B3	J812E2	R24B3	R501B3	R806G3 R807G3
C13C3	C504B4	C636D4	D829D3	J234C1	J544B3	J813D2	R25B3	R502B4	R808F3
C14F1	C505C3	C801G1	D830E3	J235C1	J545C2	J814D3	R26C2	R503B4	R809F3
C16C2	C506C3	C803F2	D854E1	J242D1	J546B3	J815G3	R27C2	R504B3	R810F3
C21E1 C22B2	C507C3 C508C3	C804G2 C806G2	D901A1 D902A1	J261C5	J547B3	J816F3	R28A5	R505B3	R811E3
C23A4	C509B4	C807F3	D902A1	J301C4 J302D4	J548B3 J549C2	J817D3 J819F3	R29C3 R30C3	R506B3 R507B4	R812G3 R813E3
C24A3	C510B3	C808F3	D904B2	J303E4	J550B3	J820D3	R31C3	R508B4	R814G3
C25B4	C511C4	C809F2	DB801G2	J306D4	J551B3	J821D2	R32D1	R509B3	R816D1
C101A5	C512B3	C810F2	HIC01C2	J308B2	J552B3	J822E2	R33C3	R510C2	R817D1
C102F1	C513C4	C811F2	IC11B4	J309B2	J553B3	J823E1	R34C5	R511C2	R818F1
C103C1 C104A5	C514C5 C515B3	C815F3 C816F1	IC12A4 IC13B4	J310B2 J311E4	J554B3 J555B3	J824D2 J825D2	R35C4 R36C2	R512B3 R513C3	R823D1 R824D3
C105A5	C516B3	C817G3	IC301E4	J313E4	J556B3	J826D2	R37D1	R514C3	R825E1
C106B4	C517C4	C818G1	IC601A3	J314E4	J557B3	J827D2	R38B4	R515B3	R827D3
C107B5	C518B3	C819G3	IC801G2	J315D4	J558C3	J828D1	R39C2	R516C3	R828E3
C108B5 C109B4	C519C4	C820D1	IC802F3	J317C3	J559B3	J829D2	R42D1	R517C3	R831D2
C109B4	C520C4 C521C4	C821E2 C822E2	IC821D2 IC822E1	J318C3 J334C1	J560B3	J830E1	R101A5	R518B3	R838D1
C111A5	C522C4	C823E1	IC824E1	J401E5	J561C5 J562C5	J832E1 J833D3	R102A5 R103A4	R519B3 R520B4	R840D3 R841D3
C126A4	C523C4	C824D1	IC825D1	J402E5	J564C4	J834D3	R104A4	R521C4	R842D3
C185C1	C524C5	C826D1	IC826D3	J403E5	J565C4	J835D3	R105A5	R522C2	R843D3
C201D5	C525C4	C827D2	IC853E1	J404F5	J566C4	J836D2	R106B5	R523C2	R844D3
C202D5 C203C5	C526C4 C527C4	C828D2	IC901A1 J11A4	J405D3	J567C4	J838D1	R107A5	R524C2	R845D2
C204C5	C528C4	C829D2 C830D2	J11	J408E4 J409F4	J568C4 J569B4	J840D2 J841E2	R108A5 R109B4	R525D4 R526B4	R846D3 R847D3
C205E5	C529C4	C831D3	J103C1	J410F5	J570C4	J842E2	R110B4	R527C4	R858D1
C206C5	C530C4	C833D3	J104A5	J412F4	J571B4	J901A1	R111B4	R528D4	R901B1
C207B5	C531C3	C834D3	J105B5	J413E5	J572C3	J902A2	R112B5	R529D4	R902B1
C209B5	C532C4	C835E3	J107A5	J414E4	J573C4	J903B1	R113B5	R532C4	R903B1
C210E5 C211D5	C533C4 C534B4	C836E3 C837E3	J108B1 J109A5	J415E3 J416G3	J574B3 J575D1	J904B1 JK202C5	R114A5 R115A5	R534B2 R535B2	R904B1
C214D5	C535B4	C838E3	J110B3	J417E3	J576B3	JP1G2	R124A4	R536B2	R905B1 R906A1
C215D5	C536B4	C839D2	J111B4	J501C2	J577B3	JP2F2	R125B5	R539B5	R907A1
C216C5	C537B4	C840E2	J112B5	J502C3	J578B3	JW1G1	R126A5	R540C5	R908A1
C217D5 C224D5	C538B4	C841G3	J113A5	J503C3	J579B3	JW2B5	R127A5	R542C5	R909A1
C225D5	C539C5 C540B4	C842G3 C843G3	J114C2 J115C1	J504C3 J505D4	J580D4 J581C2	Q11E1 Q41C2	R202B5 R203C5	R543B5	R910A1
C226D5	C541C3	C844F2	J116A5	J506D4	J582C3	Q42C2	R204C5	R545C3 R555C5	R911A2 R912B1
C251C1	C542B5	C845D1	J117A5	J507C2	J583D2	Q102A5	R205C5	R557B3	R914B1
C252B1	C543C5	C846E3	J118B5	J508A4	J584D2	Q103A5	R207D5	R558B3	RL801E1
C253C1 C254C1	C544C3	C847D3	J119B5	J509D4	J585B2	Q104B4	R212C5	R560C2	T401G4
C254C1	C545C4 C546B2	C848D3 C849D3	J120C1 J121C2	J510D4 J511B3	J586C5 J587C4	Q105A4 Q106A4	R213C5	R561C2	T402F5
C256C1	C547B2	C868D3	J181C1	J512C4	J588C4	Q301D4	R215D5 R217D5	R562C4 R563C4	T802F1 T803F3
C259C1	C548C4	C901B1	J182C1	J513C2	J589B4	Q401G4	R218D5	R601A2	TH801F1
C260C1	C549C1	C902A1	J183C1	J514C2	J590B4	Q402G3	R219D5	R602A2	TH802F2
C261C1	C550C4	C903A2	J201D5	J515C2	J591C4	Q403D4	R251C1	R603A2	TU101B5
C301E4 C302E4	C551C4 C601A3	C904B2 C905A1	J202D5 J203D5	J516B4	J601A3	Q501B3	R252B1	R604A2	VD801G1
C303E4	C602B2	C906B1	J203D5	J517C2 J518C2	J602A3 J603A4	Q502B2 Q503C2	R253B1 R302E4	R605A4 R606A4	X11C4 Z101B4
C304D4	C603A3	D101A4	J205D5	J519C3	J604A3	Q504C2	R303D4	R607A2	ZD10C2
C306F4	C604A3	D301E4	J206C3	J520B3	J605B4	Q505C5	R304E4	R608B2	ZD101C1
C307D4	C605A2	D402G3	J207D5	J521C3	J606A2	Q507B5	R305D4	R609A2	ZD122A4
C308D3	C606B2 C607A3	D403F3 D405E4	J208C1 J209D4	J522B3 J523C3	J607A2 J608B2	Q508B2	R306D4	R610A3	ZD401D4
C402G4	C608B2	D406E5	J210C5	J524C3	J609A4	Q510B2 Q601A2	R307D4 R308D3	R611A3 R612A4	ZD402E3 ZD447D5
C403G3	C609A4	D407E5	J211C5	J525C3	J610B2	Q801D3	R309D4	R613B3	ZD501A4
C404F3	C610A3	D444E5	J212E5	J526C3	J611B2	Q802D1	R310D4	R614A4	ZD601B4
C405G3	C611A3	D501B3	J213D5	J527C3	J613B2	Q803D1	R312D4	R615A3	ZD801G3
C409F4 C410F3	C612B2 C613B2	D502B2 D503B3	J214D5 J215B5	J528C3 J529B3	J614B2 J615A2	Q804D2	R313F4	R616A4	ZD803D3
C411F3	C614B2	D504D4	J216D5	J530B3	J616B4	Q805E1 Q807D2	R314F4 R315F4	R617B5 R618B5	ZD902B1 ZD903B1
C412F4	C615B4	D601B2	J217B5	J531B3	J617B4	Q808D2	R328E4	R619B5	ZD903B1
C414E5	C616A4	D602A3	J219D4	J532B3	J801D2	R10C2	R403G4	R620A4	•
C415E4	C617B4	D603A2	J220D5	J533B2	J802G1	R11C2	R404G4	R621B5	
C416E5 C417E5	C618A4 C619A4	D604A3	J221D5	J534C2	J803G1	R12C4	R405F3	R623B5	
C417E3	C620A4	D801F3 D802F3	J222D5 J223B5	J535C1 J536B4	J804G1 J805G1	R13E1 R14D1	R409F4 R410F4	R624B5 R626B5	
C421E5	C621A3	D803F3	J224B5	J537C5	J806F1	R15F1	R410D4	R664B5	
C422E5	C622A3	D805E3	J225E5	J538C4	J807F1	R16E1	R418E5	R802F1	
C450E5	C623A2	D815G2	J226C1	J539C4	J808F1	R17E1	R419E5	R803E2	
C457D5	C625D5	D821E2	J230C1	J540B2	J809F2	R18D1	R420E5	R804G2	

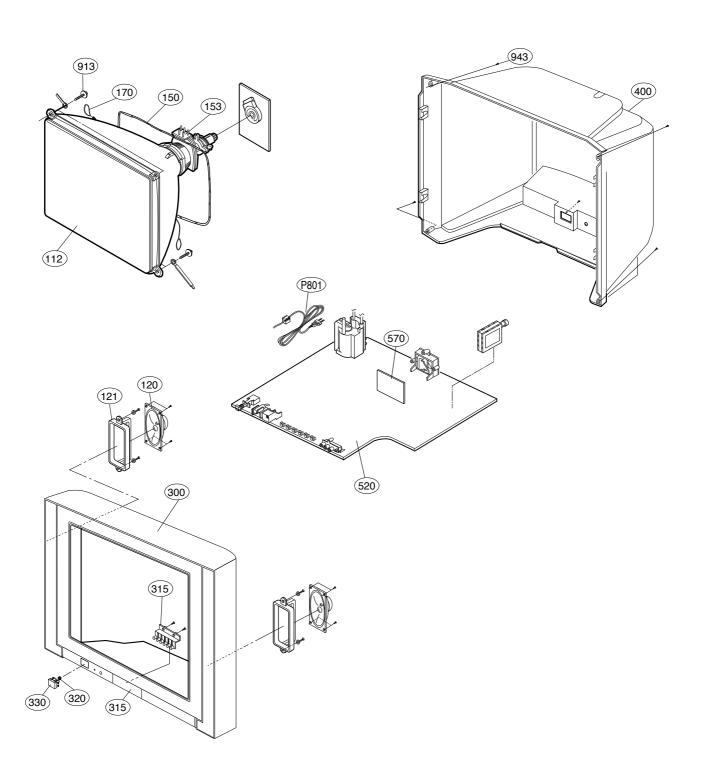
### PIP



### **BLOCK DIAGRAM**



# **EXPLODED VIEW**



# **EXPLODED VIEW PARTS LIST**

LOCA. No.	PART No.	DESCRIPTIONS	
<b>∆</b> 112	6334V21009A	CPT, A51QDJ420X 01 16KHZ BARE AK MASK (CASA-S, AMATIS)	
	6335V21019A	CPT, A51QDJ420X 01MDDR M(+0.30G) 0G RT-21FA35V.LDLLAT7(LGEAK)	
	6341V21012A	BARE CPT ASSEMBLY, LG 21 AK CPT 6334V21009A(6150V-1014J) RT-21FA35RX.ADLLKR	
120	120-C77M	SPEAKER,FULLRANGE C122P02K1459 ESTEC 8 OHM 10/15W 130DB 57*117MM	
121	4810V00088A	BRACKET, SPEAKER CE-29K30	
	4810V00088B	BRACKET, SPEAKER CE-29K3	
<b>≙</b> 150	150-D02N	COIL,DEGAUSSING,CU 21" 60T 12 OHM	
	150-D02T	COIL,DEGAUSSING,AL 21" 56T 12 OHM	
<b>∆</b> 153	6150V-1014J	DY(DEFLECTION YOKE), 6150Z-1227A 21" LG SLIM	
<u>∧</u> 170	170-A01N	CPT EARTH, 21" 64T 2LUG 1P HSG CL-21Q20ET(PC-99DA)	
300	3091V00335W	CABINET ASSEMBLY, RT-21FA35VX STEREO MC049B #117A MT->SET	
	3091V00335Z	CABINET ASSEMBLY, RT-21FA35VD STEREO MC049B LGEMT-AMATIS	
	3091V00383Q	CABINET ASSEMBLY, RT-21FA35RX STEREO MC049B	
	3091V00617B	CABINET ASSEMBLY, RT-21FA35V STEREO E_PHONE MC049B AK LOCAL	
310	5020V00501E	BUTTON, CONTROL RT-21FA35VX ABS, HF-380 6KEY MT LOCAL	
	5020V00585C	BUTTON, CONTROL RT-21FA35RX ABS, HF-380 6KEY DDM SILVER	
315	3580V00064E	DOOR, CONTROL RT-21FA35VX ABS, HF-380 MT LOCAL	
	3580V00070C	DOOR, CONTROL RT-21FA35RX ABS, HF-380 DDM SILVER	
320	320-062E	SPRING, KNOB	
330	5020V00500E	BUTTON, POWER RT-21FA35VX ABS, HF-380 1KEY MT LOCAL	
	5020V00584C	BUTTON, POWER RT-21FA35RX ABS, HF-380 1KEY DDM SILVER	
400	3809V00250S	BACK COVER ASSEMBLY, RT-21FA35VX 1PHONE MT->SET	
	3809V00250U	BACK COVER ASSEMBLY, RT-21FA35VX DVD(1PHONE) 8G068 MT-SET	
	3809V00277K	BACK COVER ASSEMBLY, RT-21FA35RX DVD(1PHONE) 049B(85061)	
	3809V00423B	BACK COVER ASSEMBLY, RT-21FA35V DVD(1PHONE) MC049B(AK LOCAL)	
520	6871VMM894A	PWB(PCB) ASSEMBLY,MAIN MC049B RT-21FA35RX.ADSLKR	
	6871VMM897A	PWB(PCB) ASSEMBLY,MAIN MC049B (MODULE)LGEMT	
	6871VMM897J	PWB(PCB) ASSEMBLY,MAIN MC049B RT-21FA35VD.LMLLTD7 M/I	
	6871VMM898A	PWB(PCB) ASSEMBLY,MAIN MC049B RT-21FA35V.LDLLAT7	
	6871VMMU15B	PWB(PCB) ASSEMBLY,MAIN MC-049B RT-21FA35VX.LMLLTD7 M/I	
	6871VMMU15C	PWB(PCB) ASSEMBLY,MAIN MC-049B RT-21FA35R.LTLLTA7 M/I	
570	6871VSMK09A	PWB(PCB) ASSEMBLY,SUB PIP MC049B LGEMT-7	
913	332-057B	SCREW,DRAWING ASSY,HEXAGON HEAD	
943	1PTF0403116	SCREW TAP TITE(P),TRUSS HEAD + D4.0 L16.0 MSWR3/FZB	
∆ P801	174-009E	POWER CORD, POWER(W/HOLD,HOUSING,L=200,4.0	
	6410VEH001J	POWER CORD, EL-207 CHING CHENG VDE/SEMKO 2100MM HOUSING L1=200 BLACK	

# **REPLACEMENT PARTS LIST**

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

		RF : Fusible
LOCA. NO	PART NO	DESCRIPTION
		IC
IC11	0IMCRMN026A	VCT4973F88P PSSDIP ST FLASH
IC11	0IMCRMN026A	VCT4973F88P PSSDIP ST FLASH
IC12	0IMMRSG036C	M24C16-WBN6 8PIN PDIP ST 16M
IC13	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC301	0IPMGPH002A	TDA4863A 7P SOT524-1 ST
IC601	0IPMGSA021C	LA42152 13P ST 15W
IC801	0IPMGSK016B	STR-W6754 SANKEN 7PIN T0220F ST
IC802	0ILI817000G	LTV817M-VB 4P,DIP BK
IC821	0IMCRKE019A	KIA78R33API KEC 4P TO220 ST 3.3V 1A
IC822	0IMCRKE018A	KIA78R05API KEC 4P TO220 ST 5V 1A
IC824	0IMCRKE020A	KIA78S06P KEC 3P TO-92 TP 6V 0.15A
IC825	0IMCRAU003A	S1117-18PIC 3P TO220F ST 1.8V 1A
IC826	0ISK110000A	SE110N(LF12) 3P 110V ERROR AMP
IC853	0IMCRAU004A	S1117-33PIC 3P TO220F ST 3.3V 1A
IC901	0IPH610700B	TDA6107JF/N3 9P ST RGB AMP
	Т	RANSISTOR
Q104	0TR319709AB	KTC3197,TP(KTC388A),KEC
Q11	0TR126609AA	KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q301	0TR198009BA	2SA1980Y TP AUK
Q401	0TRSA10004A	TT2170LS-YB11 ST TO-220FM 1500V 5A
Q402	0TR233109AA	KSC2331-Y TP SAMSUNG TO-92L -
Q501	0TR198009BA	2SA1980Y TP AUK
Q502	0TR198009BA	2SA1980Y TP AUK
Q503	0TR198009BA	2SA1980Y TP AUK
Q504	0TR198009BA	2SA1980Y TP AUK
Q505	0TR534309AA	2SC5343Y TP AUK
Q507	0TR198009BA	2SA1980Y TP AUK
Q508	0TR534309AA	2SC5343Y TP AUK
Q510	0TR534309AA	2SC5343Y TP AUK
Q601	0TR198009BA	2SA1980Y TP AUK
Q802	0TR534309AA	2SC5343Y TP AUK
Q803	0TR102009AB	KRC102M(KRC1202) KEC TP
Q807	0TR127409AB	KTA1274-Y TO-92L TP KEC
Q808	0TR102009AB	KRC102M(KRC1202) KEC TP
		DIODE
D301	0DD400509AA	1N4005 TP KEC
D403	0DRTW00164B	RGP15J TP52 DO15 .V 1.5A 50A 250NSEC 100UA
D405	0DRTW00164B	RGP15J TP52 DO15 .V 1.5A 50A 250NSEC 100UA
D406	0DRTW00164B	RGP15J TP52 DO15 .V 1.5A 50A 250NSEC 100UA
D407	0DRTW00164A	RGP10J TP52 DO41 .V 1A 30A .SEC 5UA
D501	0DD414809ED	1N4148 TP GRANDE
D502	0DD414809ED	1N4148 TP GRANDE
D502	0DD414809ED	1N4148 TP GRANDE
D503	0DD414809ED	1N4148 TP GRANDE
D601	0DD414809ED	1N4148 TP GRANDE
2001	300414003ED	INTERIOR OF CHARLES

LOCA. NO	PART NO	DESCRIPTION
D602	0DD414809ED	1N4148 TP GRANDE
D603	0DD414809ED	1N4148 TP GRANDE
D604	0DD414809ED	1N4148 TP GRANDE
D801	0DD100009AM	EU1ZV(1) TP SANKEN
D802	0DD100009AM	EU1ZV(1) TP SANKEN
D803	0DD100009AM	EU1ZV(1) TP SANKEN
D815	0DD060009AC	TVR06J TP - 600V 250NSEC
D821	0DRTW00164A	RGP10J TP52 DO41 .V 1A 30A .SEC 5UA
D827	0DRTW00141A	SFAF504G ST ITO220 200V 5A .A .SEC 10UA
D828	0DRTW00141A	SFAF504G ST ITO220 200V 5A .A .SEC 10UA
D829	0DD300009AC	RU3AMV(1) TP
D830	0DRTW00164A	RGP10J TP52 DO41 .V 1A 30A .SEC 5UA
D854	0DD060009AC	TVR06J TP - 600V 250NSEC
D901	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D902	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D903	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D904	0DR140049AC	1N4004A T-81 TP DO41 500V 1.0A 30A - 10UA
DB801	0DRTW00131A	D2SB60 ST GBL 600V 1.5A .A .SEC 10UA
ZD101	0DZ510009BF	GDZ5.1B TP GRANDE DO34 0.5W 5.1V 0.02A
ZD122	0DZ330009DG	GDZJ33B TP GRANDE DO34 0.5W 33.0V
ZD401	0DZ510009BF	GDZ5.1B TP GRANDE DO34 0.5W 5.1V 0.02A
ZD402	0DZ240009CG	MTZJ24B TP ROHM-K DO34 - 24V 5UA
ZD501	0DZ110009AD	MTZJ11B TP ROHM-K DO34 - 11V 5UA
ZD601	0DZ820009AH	MTZJ8.2B TP ROHM-K DO34 - 8.2V 5UA
ZD801	0DZ620009AH	MTZJ6.2A TP ROHM-K DO34 0.5W 6.2V 150UA
ZD803	0DZ510009BF	GDZ5.1B TP GRANDE DO34 0.5W 5.1V 0.02A
		CAPACITOR
C10	0CX2200K409	22P 50V J SL TA52
C101	0CQ2721N409	0.0027UF D 100V 5% PE TP5
C102	0CN3310K519	330P 50V K B TA52
C103	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C104	0CN1030F679	10000P 16V M Y TA52
C106	0CN1030F679	10000P 16V M Y TA52
C107	0CN1030F679	10000P 16V M Y TA52
C108	0CN1030F679	10000P 16V M Y TA52
C109	0CN1030F679	10000P 16V M Y TA52
C11	0CX2200K409	22P 50V J SL TA52
C110	0CN1030F679	10000P 16V M Y TA52
C111	0CE227DD618	220UF STD 10V M FL TP5
C12	0CE107DD618	100UF STD 10V M FL TP5
C126	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C13	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C14	0CN1020K519	1000P 50V K B TA52
C185	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C201	0CN1010K519	100P 50V K B TA52
C202	0CN1010K519	100P 50V K B TA52
C205	0CN4710K519	470P 50V K B TA52
C21	0CE107DD618	100UF STD 10V M FL TP5

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

1004 NO	DARTNO	DESCRIPTION
LOCA. NO	PART NO	DESCRIPTION
C211	0CN4710K519	470P 50V K B TA52
C214	0CN4710K519	470P 50V K B TA52
C215	0CN4710K519	470P 50V K B TA52
C216	0CE226DF618	22UF STD 16V M FL TP5
C217	0CE226DF618	22UF STD 16V M FL TP5
C23	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C24	0CE226DD618	22UF STD 10V 20% FL TP 5
C25	0CE105DK618	1UF STD 50V M FL TP5
C252	0CN2710K519	270P 50V K B TA52
C253	0CN4710K519	470P 50V K B TA52
C254	0CN1010K519	100P 50V K B TA52
C255	0CN2710K519	270P 50V K B TA52
C256	0CE106DH618	10UF STD 25V M FL TP5
C259	0CN1010K519	100P 50V K B TA52
C260	0CN4710K519	470P 50V K B TA52
C303	0CQ1041N409	0.1000UF 100V J PE TP
C304	0CE107DJ618	100UF STD 35V M FL TP5
C306	0CQ3331N509	0.033UF D 100V 10% PE TP5
C402	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C403	0CQ1521N509	0.0015UF D 100V 10% PE TP5
C404	181-015E	MPP 1600V 0.0068UF H
C405	181-091Y	R 680PF 2KV 10%,-10% R/TP TP7.5
C409	0CK8210W515	820P 500V K B TS
C410	0CE475DP618	4.7UF STD 160V 20% FL TP 5
C411	181-013P	MPP 400V 0.33UF J
C414	0CK2710W515	270P 500V KB TS
C415	0CE108DH618	1000UF STD 25V M FL TP5
C416	181-009R	PP 200V 0.022UF K
C417	0CK2710W515	270P 500V KB TS
C419	0CE108DH618	1000UF STD 25V M FL TP5
C421	0CK2710W515	270P 500V KB TS
C422	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C501	0CQ6831N509	0.068UF D 100V 10% PE TP5
C502	0CQ6831N509	0.068UF D 100V 10% PE TP5
C503	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C504	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C505	0CN2710K519	270P 50V K B TA52
C506	0CN2710K519	270P 50V K B TA52
C507	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C508	0CE107DD618	100UF STD 10V M FL TP5
C509	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C510	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C511	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C512	0CE107DD618	100UF STD 10V M FL TP5
C513	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C514	0CE107DD618	100UF STD 10V M FL TP5
C515	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C516	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C517	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C518	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C519	0CN1010K519	100P 50V K B TA52
C520	0CE107DD618	100UF STD 10V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C521	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C523	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C524	0CE107DD618	100UF STD 10V M FL TP5
C526	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C527	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C528	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C529	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C530	0CN1010K519	100P 50V K B TA52
C531	0CX3300K409	33P 50V J SL TA52
C532	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C533	0CE107DD618	100UF STD 10V M FL TP5
C534	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C535	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C536	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C537	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C538	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C540	0CE107DD618	100UF STD 10V M FL TP5
C541	0CE107DD618	100UF STD 10V M FL TP5
C542	0CE107DD618	100UF STD 10V M FL TP5
C543	0CE107DD618	100UF STD 10V M FL TP5
C545	0CX2200K409	22P 50V J SL TA52
C546	0CN1510K519	150P 50V K B TA52
C547	0CN2710K519	270P 50V K B TA52
C548	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C550	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C602	0CE108DH618	1000UF STD 25V M FL TP5
C603	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C604	0CQ8221N519	0.0082UF D 100V 10% PE NI TP5
C605	0CE476DF618	47UF STD 16V M FL TP5
C606	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C607	0CE106DF618	10UF STD 16V M FL TP5
C608	0CE106DF618	10UF STD 16V M FL TP5
C609	0CQ8221N519	0.0082UF D 100V 10% PE NI TP5
C610	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C611	0CE476DH618	47UF STD 25V 20% FL TP 5
C612	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C613	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C614	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C615	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C616	0CE476DD618	47UF STD 10V 20% FL TP 5
C617	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C618	0CN1010K519	100P 50V K B TA52
C619	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C620	0CN1010K519	100P 50V K B TA52
C625	0CQ3331N509	0.033UF D 100V 10% PE TP5
C626	0CQ3331N509	0.033UF D 100V 10% PE TP5
C627	0CK1030K945	0.01UF 50V Z F TR
C632	0CQ3331N509	0.033UF D 100V 10% PE TP5
C636	0CQ3331N509	0.033UF D 100V 10% PE TP5
C803	0CE337KV6A0	330UF SLT 450V 20% VNSN BULK
C803	181-001V	CE 450V 220UF M LUG(85)
C804	0CK10201515	1000P 1KV K B TS

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LOCA. NO	PART NO	DESCRIPTION		
C806	0CK10201515	1000P 1KV K B TS		
C807	181-091X	R 560PF 2KV 10%,-10% R/TP TP7.5		
C809	0CE105DK618	1UF STD 50V M FL TP5		
C810	0CE336DK618	33UF STD 50V M FL TP5		
C811	181-011B	0.001UF D 1.6KV J M/PP NI FM20		
C815	0CK8210K515	820P 50V K B TS		
C816	0CQZVBK002A	A.C 275V 0.1UF M (S=15)		
C817	0CK1040K945	0.1UF 50V Z F TR		
C818	0CQZVBK002C	A.C 275V 0.22UF K (S=22.5)		
C819	0CK1520K515	1500P 50V K B TS		
C820	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52		
C821	0CK4710W515	470PF 500V K B TR		
C822	0CE477DH618	470UF STD 25V M FL TP5		
C823	0CE477DD618	470UF STD 10V M FL TP5		
C824	0CE108DD618	1000UF STD 10V M FL TP5		
C826	0CE108DD618	1000UF STD 10V M FL TP5		
C827	0CE108DD618	1000UF STD 10V M FL TP5		
C828	0CE477DD618	470UF STD 10V M FL TP5		
C829	0CE335CK636	3.3UF SHL,SD 50V 20% FM5 BP(D) TP		
C830	0CE108DH618	1000UF STD 25V M FL TP5		
C831	0CE227DP61A	220UF STD 160V 20% FL TP 7.5		
C833	0CE107CP618	100U SHL 160V M FL TP5		
C835	0CK4710W515	470PF 500V K B TR		
C836	0CK12202510	1200P 2KV K B S		
C837	0CQ4731N509	0.047UF D 100V 10% PE TP5		
C838	0CE227DK618	220UF STD 50V M FL TP5		
C840	0CE228BF618	2200UF KME 16V M FL TP5		
C843	181-120K	2200PF 4KV M E FMTW LEAD 4.5		
C845	0CE107DD618	100UF STD 10V M FL TP5		
C901	0CE475DR618	4.7UF STD 250V 20% FL TP 5		
C902	0CQ1044R539	0.1UF TE 250V 10% M/PE NI TP5		
C903	181-033S	2KV B 122K TP7.5		
C904	0CE475DR618	4.7UF STD 250V 20% FL TP 5		
	COIL & INDUCTOR			
L101	0LA0102K139	INDUCTOR,10UH K 4*10.5 TP		
L103	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP		

#### L11 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP 0LA0101K119 INDUCTOR,1.0UH K 2.3\*3.4 TP L12 L202 INDUCTOR,10UH K 2.3\*3.4 TP 0LA0102K119 0LA0102K119 L208 INDUCTOR,10UH K 2.3\*3.4 TP L211 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP 0LA0102K119 L213 INDUCTOR,10UH K 2.3\*3.4 TP L251 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP L252 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP L253 0LA0472K119 INDUCTOR,47UH K 2.3\*3.4 TP 0LA0472K119 INDUCTOR,47UH K 2.3\*3.4 TP L254 L401 6140VE0001V COIL,60UH 0.6PHY 69.5TURN CH-1012S MC019A L402 6140VB0001F COIL,130UH 0.45PHY 55.5TURN CH-1012S MC019A L501 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP L502 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP L503 0LA0102K119 INDUCTOR,10UH K 2.3\*3.4 TP

LOCA. NO	PART NO	DESCRIPTION
L504	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
L505	0LA0101K119 0LA0102K119	INDUCTOR,1.0011 K 2.3 3.4 1F
L505	0LA0102K119	INDUCTOR,100H K 2.3*3.4 TP
L507	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
L508	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
L509	0LA0102K119	INDUCTOR,100H K 2.3*3.4 TP
L801	150-C02F	COIL,CHOKE 82UH PHY TURN
T401	151-C02F	TRANSFORMER,H-DRIVE,EI-19,BULK
T803	6170VMCA43J	TRANSFORMER,EER3940 400UH RT-21FA35RQ
		RESISTOR
F802	0RP0050H709	0.05 OHM 1/2 W 10% TA52
F804	0RP0050H709	0.05 OHM 1/2 W 10% TA52
F805	0RP0020J809	0.02 OHM 1 W 20% TA52
F806	0RP0020J809	0.02 OHM 1 W 20% TA52
FR401	0RF0141K607	1.4 OHM 2 W 5.00% TA62
FR901	0RF0141K607	1.4 OHM 2 W 5.00% TA62
J202	0RD1000F609	100 OHM 1/6 W 5% TA52
J203	0RD1000F609	100 OHM 1/6 W 5% TA52
J204	0RD1000F609	100 OHM 1/6 W 5% TA52
J211	0RD1000F609	100 OHM 1/6 W 5% TA52
J402	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R102	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R109	0RD0562F609	56 OHM 1/6 W 5.00% TA52
R110	0RD8200F609	820 OHM 1/6 W 5.00% TA52
R111	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R112	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R113	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R12	0RD1000F609	100 OHM 1/6 W 5% TA52
R124	0RD2202F609	22K OHM 1/6 W 5% TA52
R125	0RD2700A609	270 OHM 1/2 W(7.0) 5.00% TA52
R126	0RD1000F609	100 OHM 1/6 W 5% TA52
R127	0RD1000F609	100 OHM 1/6 W 5% TA52
R13	0RD1301F609	1.3K OHM 1/6 W 5.00% TA52
R14	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R15	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R16	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R17	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R18	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R19	0RD3900F609	390 OHM 1/6 W 5% TA52
R20	0RD4300F609	430 OHM 1/6 W 5.00% TA52
R204	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R205	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R212	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R213	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R24	0RD1000F609	100 OHM 1/6 W 5% TA52
R25	0RD1000F609	100 OHM 1/6 W 5% TA52
R252	0RD1200A609	120 OHM 1/2 W(7.0) 5.00% TA52
R253	0RD1200A609	120 OHM 1/2 W(7.0) 5.00% TA52
R28	0RD1000F609	100 OHM 1/6 W 5% TA52
R29	0RD1000F609	100 OHM 1/6 W 5% TA52
R30	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52

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LOCA. NO	PART NO	DESCRIPTION
R302	0RN3602F409	36K OHM 1/6 W 1.00% TA52
R303	0RD2400A609	240 OHM 1/2 W(7.0) 5.00% TA52
R304	0RD0561A609	5.6 OHM 1/2 W(7.0) 5.00% TA52
R305	0RD1002F609	10K OHM 1/6 W 5% TA52
R306	0RD1002F609	10K OHM 1/6 W 5% TA52
R307	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R308	0RN4702F409	47K OHM 1/6 W 1.00% TA52
R309	0RD2001F609	2K OHM 1/6 W 5% TA52
R31	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R310	0RN4702F409	47K OHM 1/6 W 1.00% TA52
R312	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R313	0RN0471H609	4.7 OHM 1/2 W 5.00% TA52
R314	0RN0471H609	4.7 OHM 1/2 W 5.00% TA52
R315	0RS2700K607	270 OHM 2 W 5.00% TA62
R32	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R328	0RN3602F409	36K OHM 1/6 W 1.00% TA52
R33	0RD1000F609	100 OHM 1/6 W 5% TA52
R34	0RD1000F609	100 OHM 1/6 W 5% TA52
R35	0RD1000F609	100 OHM 1/6 W 5% TA52
R37	0RD1000F609	100 OHM 1/6 W 5% TA52
R38	0RD1002F609	10K OHM 1/6 W 5% TA52
R403	0RD5600A609	560 OHM 1/2 W(7.0) 0.05 TA52
R404	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
R405	0RS8200K607	820 OHM 2 W 5.00% TA62
R409	0RD1501A609	1.5K OHM 1/2 W(7.0) 5.00% TA52
R410	0RS2702K607	27K OHM 2 W 5.00% TA62
R412	0RD7501A609	7.5K OHM 1/2 W(7.0) 5.00% TA52
R42	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R421	0RD3600F609	360 OHM 1/6 W 5.00% TA52
R422	0RD1002F609	10K OHM 1/6 W 5% TA52
R501	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R502	0RN6801F409	6.8K OHM 1/6 W 1.00% TA52
R503	0RN6801F409	6.8K OHM 1/6 W 1.00% TA52
R505	0RD1000F609	100 OHM 1/6 W 5% TA52
R506	0RD2202F609	22K OHM 1/6 W 5% TA52
R507	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R508	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R509	0RD3600F609	360 OHM 1/6 W 5.00% TA52
R510	0RD3600F609	360 OHM 1/6 W 5.00% TA52
R511	0RD3600F609	360 OHM 1/6 W 5.00% TA52
R512	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R513	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R514	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R515	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R516	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R517	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R518	0RD0222F609	22 OHM 1/6 W 5.00% TA52
R519	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R520	0RD1001F609	1K OHM 1/6 W 5% TA52
R521	0RD3002F609	30K OHM 1/6 W 5.00% TA52
DEGG	0RD0152F609	15 OHM 1/6 W 5.00% TA52
R522		10 01 111 170 11 0.0070 17102

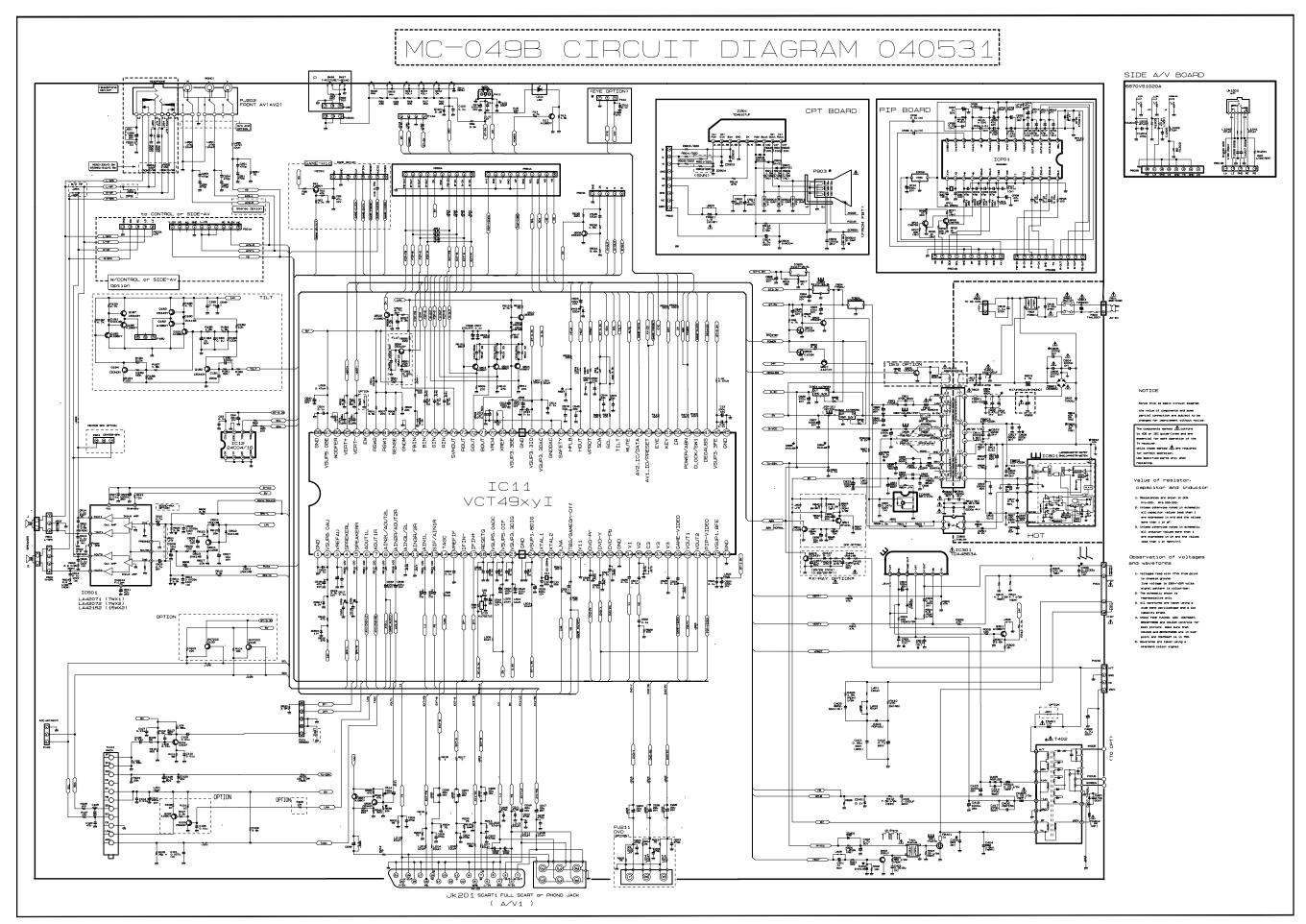
LOCA. NO	PART NO	DESCRIPTION
R524	0RD1000F609	100 OHM 1/6 W 5% TA52
R526	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R527	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R530	0RD3304F609	3.3M OHM 1/6 W 5.00% TA52
R532	0RD1000F609	100 OHM 1/6 W 5% TA52
R534	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R535	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R536	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R539	0RD1002F609	10K OHM 1/6 W 5% TA52
R540	0RD4702F609	47K OHM 1/6 W 5% TA52
R542	0RD8200F609	820 OHM 1/6 W 5.00% TA52
R543	0RD9100F609	910 OHM 1/6 W 5.00% TA52
R545	0RD1002F609	10K OHM 1/6 W 5% TA52
R555	0RD6800F609	680 OHM 1/6 W 5% TA52
R557	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R558	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R562	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R563	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R601	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R602	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R603	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R604	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R605	0RD1001F609	1K OHM 1/6 W 5% TA52
R606	0RD3901F609	3.9K OHM 1/6 W 5% TA52
R607	0RD1002F609	10K OHM 1/6 W 5% TA52
R608	0RD1001F609	1K OHM 1/6 W 5% TA52
R609	0RD1000F609	100 OHM 1/6 W 5% TA52
R610	0RD1802F509	18K OHM 1/6 W 2.00% TA52
R611	0RD1001F609	1K OHM 1/6 W 5% TA52
R612	0RD3901F609	3.9K OHM 1/6 W 5% TA52
R613	0RD0221F609	2.2 OHM 1/6 W 5.00% TA52
R614	0RD1000F609	100 OHM 1/6 W 5% TA52
R615	0RD1001F609	1K OHM 1/6 W 5% TA52
R616	0RD2700F609	270 OHM 1/6 W 5% TA52
R617	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R618	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R619	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R620	0RD1000F609	100 OHM 1/6 W 5% TA52
R621	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R624	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R664	0RD6801F609	6.8K OHM 1/6 W 5.00% TA52
R802	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52
R803	180-822N	RWR 7W 1.0 OHM J PD
R804	0RS4702K619	47K OHM 2 W 5% TR
R805	0RS4702K619	47K OHM 2 W 5% TR
R806	180-A01N	0.18 OHM 2 W 5% TA62 PRW
R807	0RD2200A609	220 OHM 1/2 W(7.0) 5.00% TA52
R808	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R809	0RD1001F609	1K OHM 1/6 W 5% TA52
R810	0RD0472F609	47 OHM 1/6 W 5% TA52
R814	0RK8204H609	8.2M OHM 1/2 W 5.00% TA52
R816	0RD1001F609	1K OHM 1/6 W 5% TA52

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LOCA. NO	PART NO	DESCRIPTION
R817	0RD0152F609	15 OHM 1/6 W 5.00% TA52
R823	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R827	0RD1001F609	1K OHM 1/6 W 5% TA52
R828	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R831	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R838	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R858	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R903	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R904	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R905	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R906	0RD1000F609	100 OHM 1/6 W 5% TA52
R907	0RD1000F609	100 OHM 1/6 W 5% TA52
R908	0RD1000F609	100 OHM 1/6 W 5% TA52
R909	0RCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)
R910	0RCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)
R911	0RCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)
R912	0RD2204A609	2.2M OHM 1/2 W(7.0) 5.00% TA52
R914	0RD0102F609	10 OHM 1/6 W 5% TA52
		SWITCH
0)////	440.0454	
SW11	140-315A	TACT SKHV17910B LG C&D 12V
SW12	140-315A	TACT SKHV17910B LG C&D 12V
SW13	140-315A	TACT SKHV17910B LG C&D 12V
SW14	140-315A	TACT SKHV17910B LG C&D 12V
SW15	140-315A	TACT SKHV17910B LG C&D 12V
SW16	140-315A	TACT SKHV17910B LG C&D 12V
SW801	6600VM2002A	SDKEA3 ALPS IEC 250V 8A HORIZONTAL 480G
	FILI	ER & CRYSTAL
FB201	125-123A	FERRITE BFD3565R2F(TAPING)
FB801	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB802	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB803	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB825	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
T802	150-F06W	SQE2930 36MH 0.5PHY 105TURN .
X11	6202VDB007B	RESONATOR,HC49U 20.250MHZ 30PPM 13PF BK
Z101	6200QL3001Z	B39361-X6966-D100 EPCOS ST
	A	CCESSORIES
A1	3828VA0474A	MANUAL,OWNERS LG EN 090A/D TX
A1	3828VA0474L	MANUAL,OWNERS MC049B UKR/BZ03 LG RU/EN
A1	3828VA0474R	MANUAL,OWNERS MC049B AK/TURKM LG EN
A2	6710V00124D	REMOTE CONTROLLER,MC049B W/O TXT
A2	6710V00124E	REMOTE CONTROLLER, MC049B TXT RT-21FA35
A3	5010V00004B	ANTENNA,3SECTION 750MM NTSC W/ADP
	MIS	CELLANEOUS
F801	0FS4001B53C	FUSE,4000MA 250 V 5.2X20
JK202	6612VJH023D	JACK,RCA PPJ 126-04 PIN JACK
P902	387-603E	CONNECTOR,9P 2.5MM 430MM B-B UL1007AWG26
PA01	6712SCA226B	REMOTE CONTROLLER RECEIVER,KSM-913LG1T
PJ201	6613V00006A	JACK ASSY 3P+EAR(PJ6062A)
	30.0.3000071	5.15.17.1651 61 127.11(1 0000Z1)

LOCA. NO	PART NO	DESCRIPTION
SK901	6620VBC003A	SOCKET (CIRC),CPTPCS030A 8PIN 14/360
T402	6174V-6006M	FBT,BSC25-N1648 21 YY .
TH801	163-051F	THERMISTOR,PTC J503P84D140M290Q
TU101	6700VS0002F	TUNER,TAEW-G002D W/W ALL IN W/S 09Z VE
VD801	164-003G	VARISTOR,TVR621D14A THINKING 620V 10%



**SVC. SHEET: 3854VA0162A-S** 



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